



J275K

Engine JOHN DEERE , 6081HF001
 Alternator LEROY SOMER , LSA462L6

STANDARD FEATURES

- Mechanical governor
- Mechanically welded chassis with antivibration suspension
- Power circuit breaker
- Radiator for wiring T° of 50°C [122°F] max with mechanical fan
- Protective grille for fan and rotating parts
- 9dB(A) silencer supplied separately
- Charged DC starting battery with electrolyte
- 12 V charging alternator and starter
- Supplied with oil and coolant -30°C
- User manual and commissioning guide



| Voltage | Power ESP kWe/kVA | Power PRP kWe/kVA | Standby Amps | Dimensions | Weight |
|---------|----------------------|----------------------|-----------------|---|--|
| 415/240 | 211 / 264 | 192 / 240 | 367 | Length: 2900mm [114in] Width: 1300mm [51in] Height: 1697mm [67in] | 2170kg [4784 lbs] Net 2570kg [5666 lbs] Gross |
| 400/230 | 220 / 275 | 200 / 250 | 397 | | |
| 380/220 | 220 / 275 | 200 / 250 | 418 | | |
| 240/120 | 211 / 264 | 192 / 240 | 635 | | |
| 230/115 | 220 / 275 | 200 / 250 | 690 | | |
| 220/110 | 220 / 275 | 200 / 250 | 722 | | |
| 200/115 | 220 / 275 | 200 / 250 | 794 | | |



POWER DEFINITION

PRP : Prime Power is available for an unlimited number of annual operating hours in variable load applications, in accordance with ISO 8528-1. A 10% overload capability is available for a period of 1 hour within 12-hour period of operation, in accordance with ISO 3046-1 –

ESP : The standby power rating is applicable for supplying emergency power in variable load applications in accordance with ISO 8528-1. Overload is not allowed.

TERM OF USE

Standard reference conditions 25 °C Air Intlet Temp, 2300 m A.S.L. 60 % relative humidity. All engine performance data based on the above mentioned maximum continuous ratings.

| Type | dB(A)@1m | dB(A)@7m | Dimensions | Weight | Tank |
|--|----------|----------|---|---|-------|
|  M227 | 79.5 | 69.5 | Length: 4004mm [158in] Width: 1380mm [54in] Height: 2145mm [84in] | 3150kg [6945lbs] Net 3560kg [7848lbs] Gross | 390 L |
|  M227-DW | 79.5 | 69.5 | Length: 4056mm [160in] Width: 1380mm [54in] Height: 2340mm [92in] | 3627kg [7996lbs] Net 4597kg [10135lbs] Gross | 950 L |





GeneratorJoe

4016 Quartz Drive
 Santa Rosa, CA 95405
 Phone: 707 539-9003
 Fax: 707 539-5212
 Email: sales@generatorjoe.NET
 Web www.generatorjoe.NET

ENGINE SPECIFICATIONS

| | | |
|-------------------|------------------------------------|--|
| STANDARD FEATURES | Manufacturer / Model | JOHN DEERE 6081HF001 , 4-strokes, Turbo , Air/Water SC 6 X |
| | Cylinder Arrangement | L |
| | Displacement | 8.1L [494.3C.I.] |
| | Bore and Stroke | 116mm [4.6in.] X 129mm [5.1in.] |
| | Compression ratio | 15.7 : 1 |
| | Rated RPM | 1500 Rpm |
| | Piston Speed | 6.45m/s [21.2ft./s] |
| | Max. stand by Power at rated RPM | 261kW [350BHP] |
| | Frequency regulation, steady state | +/- 2.5% |
| | BMEP | 27.2bar [394psi] |
| Governor : type | MECA | |
| EXHAUST SYSTEM | Exhaust temperature | 640°C [1184°F] |
| | Exhaust gas flow | 740L/s [1568cfm] |
| | Max back pressure | 750mm CE [30in. WG] |
| FUEL SYSTEM | 110% (Stand By power) | 68L/h [18.0gal/hr] |
| | 100% (of the Prime Power) | 56.9L/h [15.0gal/hr] |
| | 75% (of the Prime Power) | 42.6L/h [11.3gal/hr] |
| | 50% (of the Prime Power) | 29.4L/h [7.8gal/hr] |
| | Max. fuel pump flow | 203L/h [53.6gal/hr] |
| OIL SYSTEM | Total oil capacity w/filters | 32L [8.5gal] |
| | Oil Pressure low idle | 2.1bar [30.4psi] |
| | Oil Pressure rated RPM | 2.75bar [39.8psi] |
| | Oil consumption 100% load | 0.08L/h [0.021gal/hr] |
| | Oil capacity carter | 31L [8.2gal] |
| THERMAL BALANCE | Heat rejection to exhaust | 213kW [12111Btu/mn] |
| | Radiated heat to ambient | 34kW [1933Btu/mn] |
| | Heat rejection to coolant | N/A |
| AIR INTAKE | Max. intake restriction | 625mm CE [25in. WG] |
| | Engine air flow | 303L/s [642cfm] |
| COOLANT SYSTEM | Radiator & engine capacity | 40L [10.6gal] |
| | Max water temperature | 105°C [221°F] |
| | Outlet water temperature | 93°C [199°F] |
| | Fan power | 7 kW |
| | Fan air flow w/o restriction | 5.5m ³ /s [11655cfm] |
| | Available restriction on air flow | 20mm CE [0.8in. WG] |
| | Type of coolant | Gencool |
| | Thermostat | 82-94 °C |
| EMISSIONS LEVEL | PM | 60 mg/Nm ³ |
| | CO | 300 mg/Nm ³ |
| | Nox | 2050 mg/Nm ³ |
| | HC | 59 mg/Nm ³ |



GeneratorJoe

4016 Quartz Drive
 Santa Rosa, CA 95405
 Phone: 707 539-9003
 Fax: 707 539-5212
 Email: sales@generatorjoe.NET
 Web www.generatorjoe.NET





GeneratorJoe

4016 Quartz Drive
 Santa Rosa, CA 95405
 Phone: 707 539-9003
 Fax: 707 539-5212
 Email: sales@generatorjoe.NET
 Web www.generatorjoe.NET

ALTERNATOR SPECIFICATIONS

| | | |
|---|---|----------------------|
| GENERAL DATAS | Manufacturer | LEROY SOMER |
| | Type | LSA462L6 |
| | Number of phase | 3 |
| | Power factor (Cos Phi) | 0.8 |
| | Altitude | < 1000 m |
| | Overspeed | 2250 rpm |
| | Pole : number | 4 |
| | Exciter type | SHUNT |
| | Insulation : class, temperature rise | H / H |
| | Voltage regulator | R230 |
| | Total harmonics (TGH/THC) | < 2.5% |
| | Wave form : NEMA = TIF – TGH/THC | < 50 |
| | Wave form : CEI = FHT – TGH/THC | < 2% |
| | Bearing : number | 1 |
| | Coupling | Direct |
| Voltage regulation 0 to 100% load | +/- 0.5% | |
| Recovery time (20% Volt dip) ms | 500 ms | |
| SKVA with 90% of nominal sustained voltage (at 0.4PF) | N/A | |
| OTHER DATAS | Continuous nominal rating @ 40°C | 250 kVA |
| | Standby rating @ 27°C | 275 kVA |
| | Efficiencies @ 4/4 load | 92.4 % |
| | Air flow | 0.43m3/s [911.11cfm] |
| | Short circuit ratio;50 (Kcc) | 0.41 |
| | Direct axis synchro reactance unsaturated (Xd) | 327 % |
| | Quadra axis synchro reactance unsaturated (Xq) | 196 % |
| | Open circuit time constant;50 (T'do) | 2105 ms |
| | Direct axis transient reactance saturated (X'd) | 15.5 % |
| | Short circuit transient time constant (T'd) | 100 ms |
| | Direct axis subtransient reactance saturated (X''d) | 9.3 % |
| | Subtransient time constant (T''d) | 10 ms |
| | Quadra axis subtransient reactance saturated (X''q) | 11.5 % |
| | Zero sequence reactance unsaturated (Xo) | 0.7 % |
| | Negative sequence reactance saturated (X2) | 10.4 % |
| | Armature time constant (Ta) | 15 ms |
| | No load excitation current (io) | 1 A |
| | Full load excitation current (ic) | 4 A |
| | Full load excitation voltage (uc) | 34 V |
| | Recovery time (Delta U = 20% transitoire) | 500 ms |
| | Motor start (Delta = 20% perm. Or 50% trans.) | 462 kVA |
| | Transient dip (4/4 charge) – PF : 1.8 AR | 15.9 % |
| No load losses | 3.69kW [3.69Kw] | |
| Heat rejection | 16.4 kW | |



GeneratorJoe

4016 Quartz Drive
 Santa Rosa, CA 95405
 Phone: 707 539-9003
 Fax: 707 539-5212
 Email: sales@generatorjoe.NET
 Web www.generatorjoe.NET





GeneratorJoe

4016 Quartz Drive
Santa Rosa, CA 95405
Phone: 707 539-9003
Fax: 707 539-5212
Email: sales@generatorjoe.NET
Web www.generatorjoe.NET

CONTROL PANEL

Standard

NEXYS



Specifications :
Frequency meter, Ammeter, Voltmeter
Alarms and faults Oil pressure, water temperature,
Overcrank, Overspeed (>60 kVA), Min/max alternator,
Low fuel level, Emergency stop
Engine parameters Hours counter, Engine speed,
Battery voltage, Fuel level, Air preheating

Option

TELYS



Specifications :
Frequency meter, Ammeter, Voltmeter
Alarms and faults Oil pressure, water temperature, No
start-up, Overspeed, Min/max alternator, Min/max
battery voltage, Low fuel level, Emergency stop
Engine parameters Hours counter, Oil pressure, Water
temperature, Engine speed, Battery voltage, Fuel level



GeneratorJoe

4016 Quartz Drive
Santa Rosa, CA 95405
Phone: 707 539-9003
Fax: 707 539-5212
Email: sales@generatorjoe.NET
Web www.generatorjoe.NET

